# challenging perceptions of the natural and built environments in first-year college students

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#### david anderson

- professional practice associate professor, 2013 present
  - landscape architecture & environmental planning, utah state university
  - extension & teaching assignments
    - usu 1010 university connections
    - laep 1030 introduction to landscape architecture
    - laep 2039 foundations of sustainable systems
    - laep 3120 land planning for residential development
- director, utah state university botanical center 2007-2014
- associate director, utah state university botanical center 1994-2007
- areas of study
  - social & environmental performance in the built world
    - public gardens
    - resource conservation
      - water conservation
      - use of native & well-adapted, non-invasive
      - social response
    - water quality
    - stormwater management
    - interpretation

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#### laep 1030 introduction to landscape architecture

- Significant growth in delivery
  - Currently:
    - Two face-to-face sections per semester (180 students each)
    - A third face-to-face section will be added spring 2020
    - Online
    - 2018-19 academic year
      - 700+ students in face-to-face sections
      - 250+ students in online sections

## 2018-19 academic year at USU

 LAEP 1030 (all sections) made up 19% of all Breadth-Creative Arts enrollment for the 2018-19 academic year.

 That is 3<sup>rd</sup> most on the Breadth-Creative Arts list (behind Music and Art & Design).

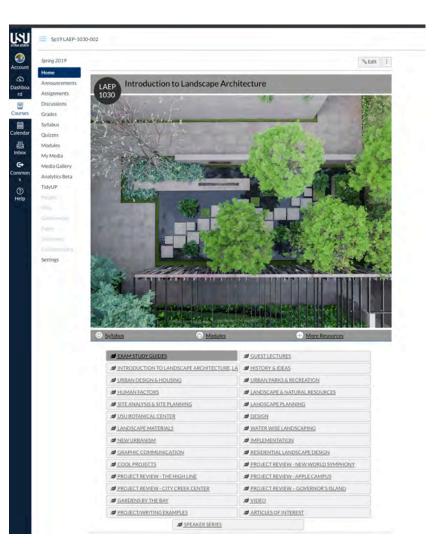
## Spring 2019 Top 3 Course at USU by Page Views (Canvas)

	CourseName	Pageviews 🗍 🥠
		<b>17,775,124</b> % of Total: 44.46% (39,982,383)
	1. But the location of the location	177,469 (1.00%)
	a warmeness	152,310 (0.86%)
	3. Sp19 LAEP-1030-002	151,928 (0.85%)
0	O Symposium and an	144,961 (0.82%)

Face-to-face sections were merged - appearing as Section 002 Data from Google Analytics

#### Spring 2019 – LAEP 1030 Spring Semester

- There were 3,915 Spring 2019 Canvas Courses tracked in Google Analytics.
- Of those, LAEP 1030 was the 3<sup>rd</sup> most visited course with 151,928 total page views.



#### laep 1030 course objectives

- Gain factual knowledge about the discipline of landscape architecture by presenting an historical overview of the origins of human interaction with the designed landscape
- Gain a broader understanding and appreciation of intellectual/cultural activities of landscape architecture by:
  - examining the major professional activities and central ideas of the profession of landscape architecture
  - developing a sense of landscape appreciation and ethics
- Learn fundamental principles and generalizations of landscape architecture by:
  - conveying an understanding of the planning and design process utilized by landscape architects
- Acquire an interest in learning more about landscape architecture

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#### Differences between LAND & LANDSCAPE



#### Differences between LAND & LANDSCAPE – the degree of man's influence



• Differences between LAND & LANDSCAPE



Introduction to Landscape Architecture - LAEP 1030

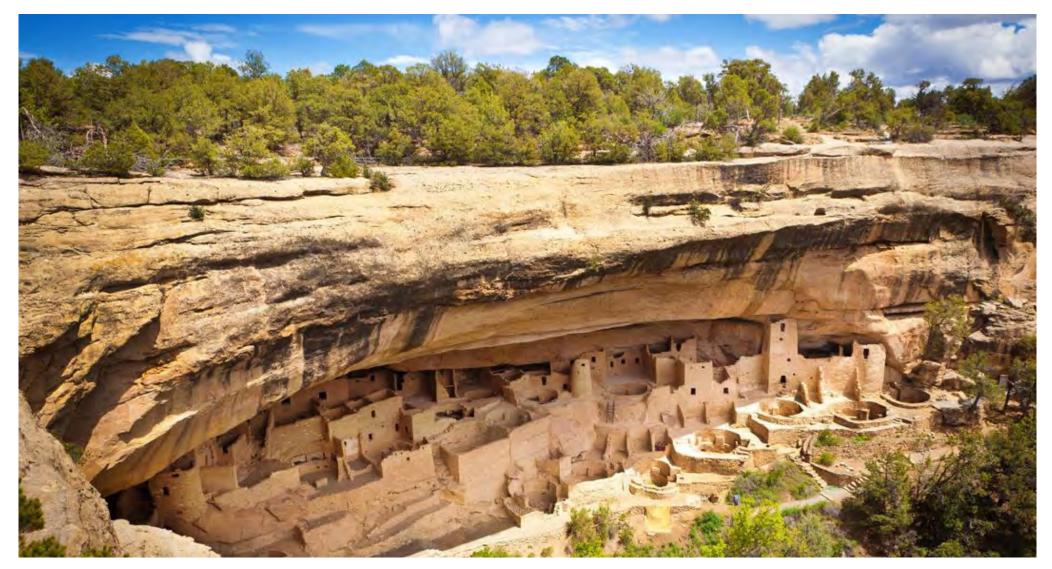
- FEAR
  - of unpredictable forces of nature, desire for security (primitive peoples)



Introduction to Landscape Architecture - LAEP 1030

#### • ADAPTATION

• growing self-confidence, humans understand the processes of nature and their own limitations



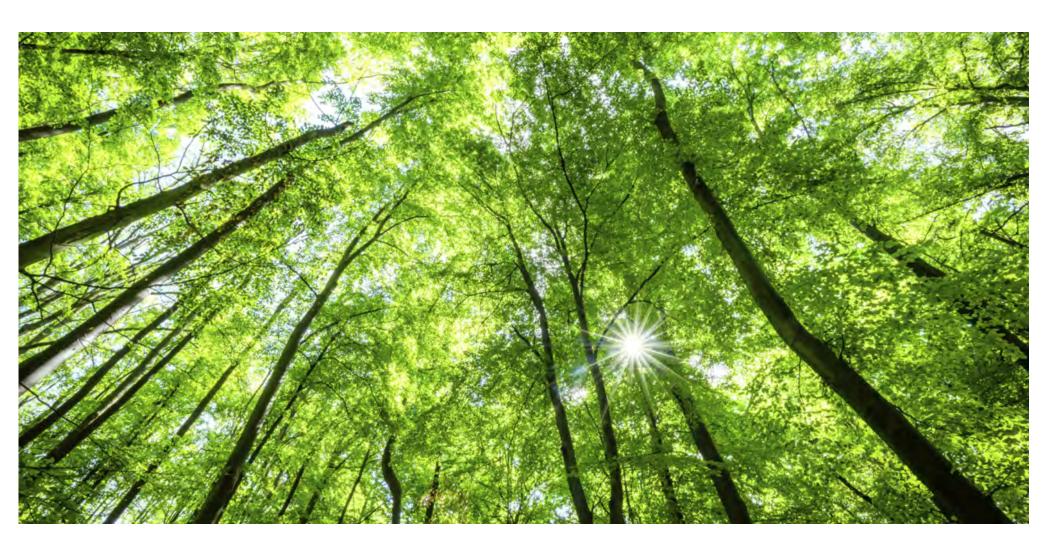
#### • AGGRESSION

• present situation, conquest of the environment, exploitation and waste of natural resources



#### • STEWARDSHIP

• renewed understanding into workings of nature – social and environmental awareness



#### laep 1030 developing a sense of landscape appreciation & ethics

- Increase awareness of the natural and built world learn to observe
- Begin to develop an 'ethic' regarding relationship with the environment
  - What is my personal 'land ethic'?
- Understand that people have a significant impact when we design/build things
- Begin to understand that all attributes of the natural world are interrelated i.e. geology, water, slope, vegetation, wildlife, etc.
- AND, when we tamper/modify/change things, there WILL be a consequence.
- Begin to understand the need to think critically about these issues

#### laep 1030 developing a sense of landscape appreciation & ethics

- In Spring 2019, 66% of students enrolled in LAEP 1030 were freshman, and 27% were sophomores.
- At the beginning of the semester, only 13% of the students indicated they were aware or very aware of the field of landscape architecture



#### laep 1030 developing a sense of landscape appreciation & ethics

Use of hands-on projects to understand the design process and strengthen the relationship and understanding of the natural world.

- Snapshot
- Park Design
- Residential Landscape Design
- In addition, ecological footprint calculation, guest lectures, video, discussion questions, and exams are incorporated into the course.



# projects snapshot – teams of 2



#### Library



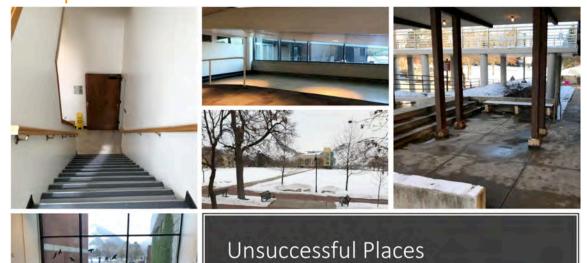
Successful



do homework. • Access to resources and help such as books and computers.

• Quiet area for students to study and • Well organized interior making it easy to find what you need. Bookshelves also acts as a sort of site lines.

#### projects snapshot – teams of 2





Part 1

#### East side of TSC

- Supports are in the way for pedestrians walking on the sidewalk.
- It can be difficult to get through this area during times of high congestion.
- It is not aesthetically appealing since the supports are bare and not interesting.
- There is especially poor placement of the poles at the bottom of the steps.

Unsuccessful

#### projects park design – in-class, teams of 5

LAEP 1030

#### site analysis, program analysis & conceptualization

#### PROBLEM:

Conceptual Design of a new public park - LAKE TAHOE

Given the following PROGRAM ELEMENTS (components, parts, and pieces of the design), develop the best possible FUNCTIONAL ARRANGEMENTS between the program elements.

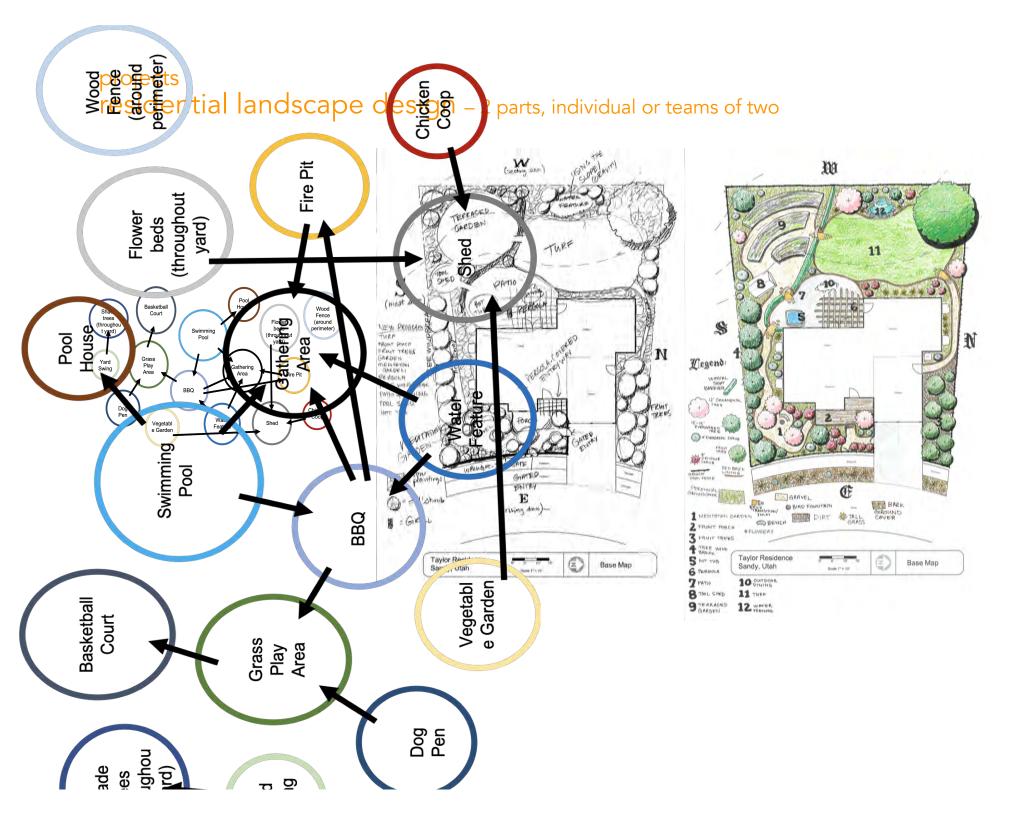
#### PROGRAM ELEMENT

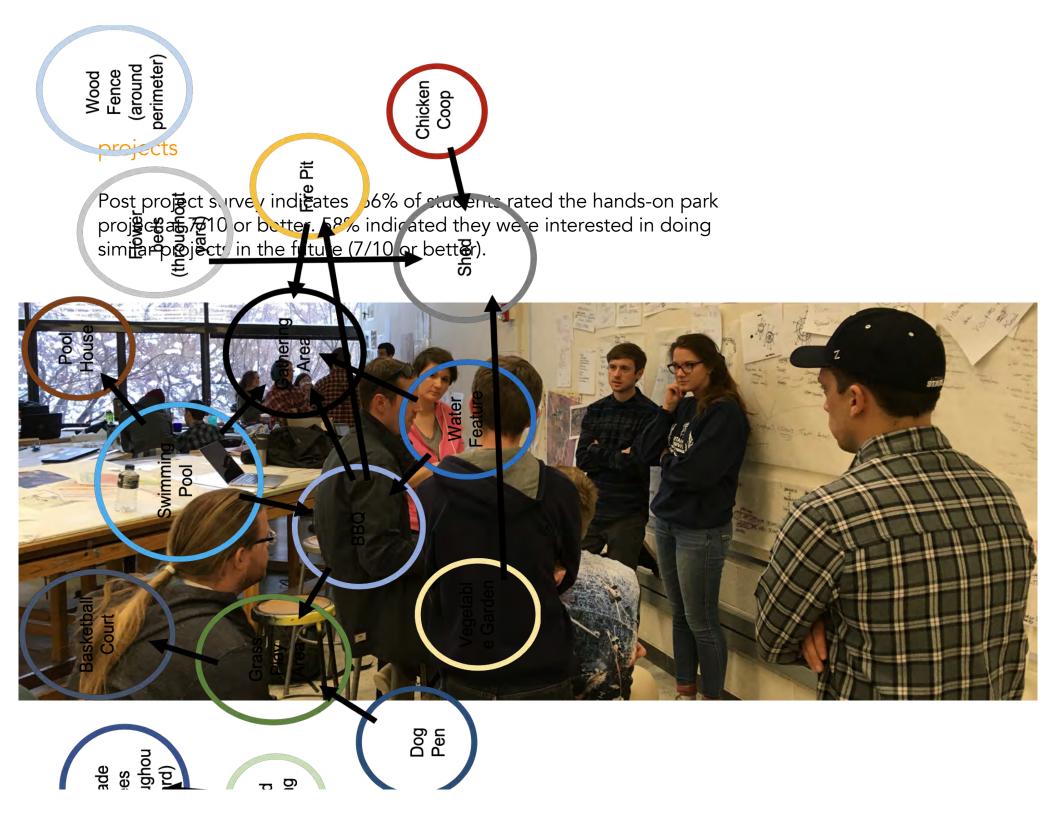
- Nature Center
- Swimming area (beach, not a pool)
- Playfields
- Playground (equipment)
- Nature Trails
- Boat Repair
- Entry Control Building
- Amphitheater
- Picnicking
- Marina & Rentals
- Restroom
- Service Yard
- Concession/Bath House
- Roads
- Parking

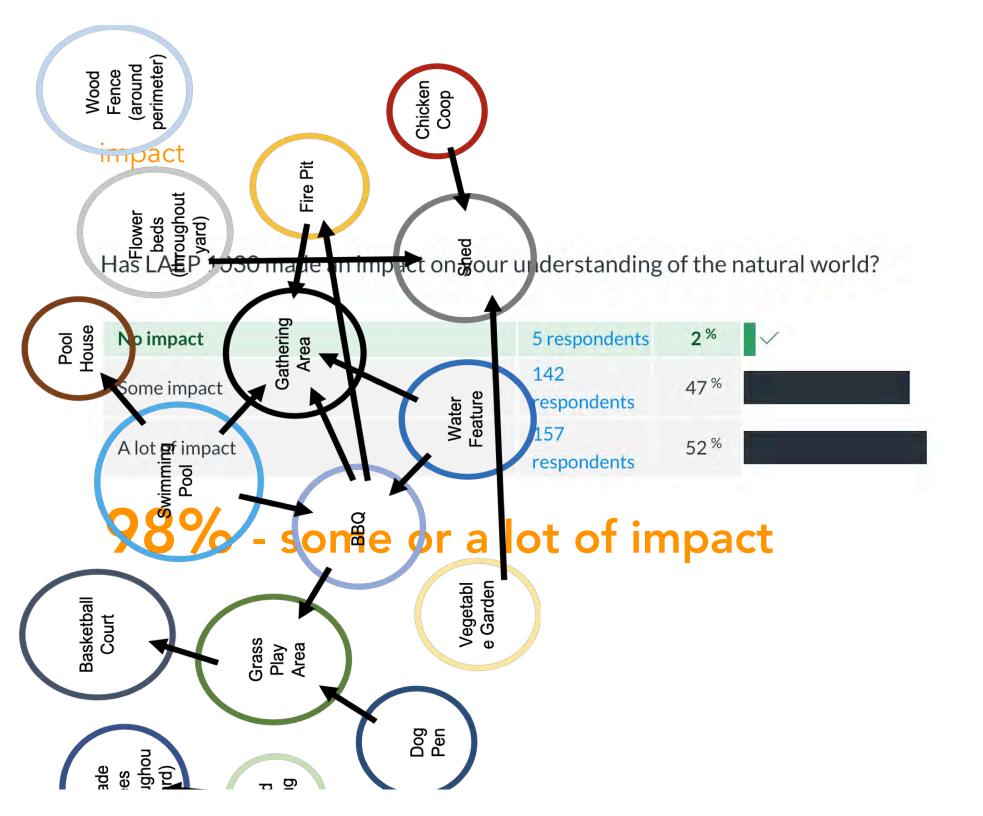


NE NEAS F- FAR AWAY B= No FELAllow









Fence (around perimeter)

Chicken Coop

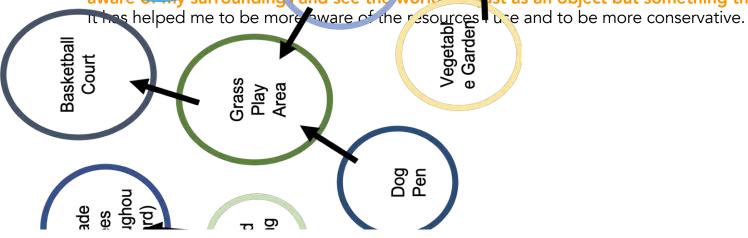
Has LAEP 1030 mace an impact on your understanding of the natural world?

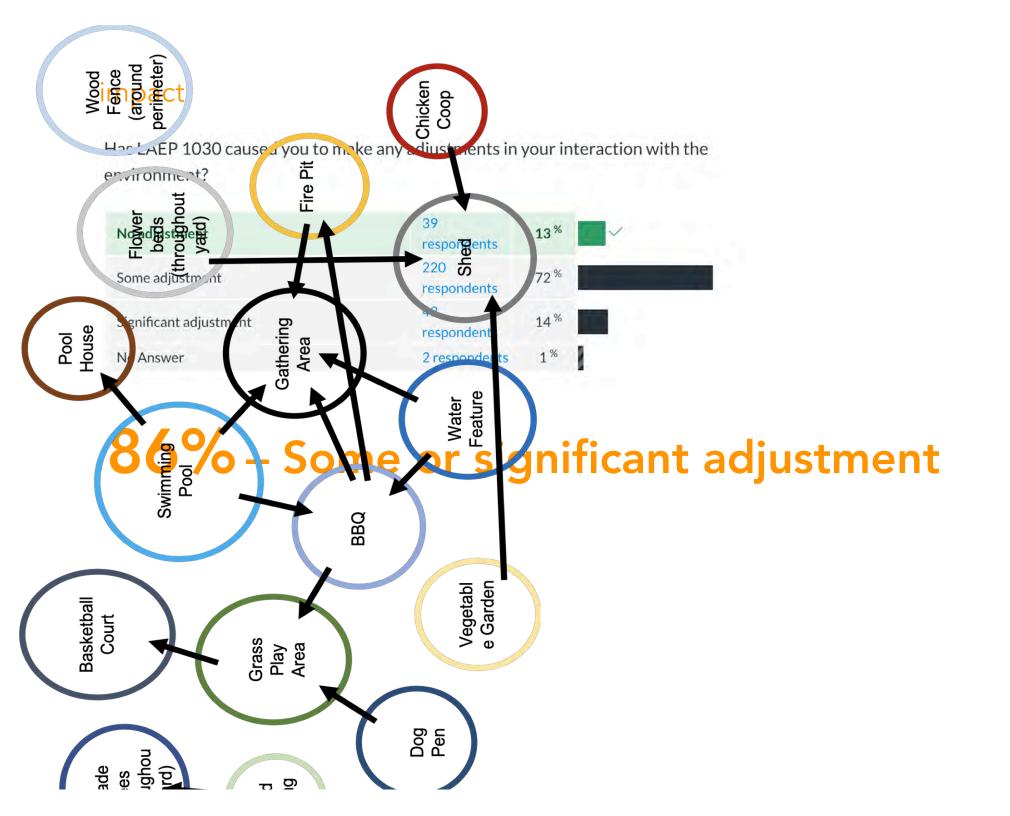
It's Beging haug it-prove that we should carefully consider how we develop and use outdoor spaces and that induitrial land can be ace.

After taking this course is think that overall I am more environmentally conscious. I think most of this comes from the first ledues taking about fear, aggression, and stewardship. It sounds kind of stapid but the phrase with out the phrase with oncisions that would impart the environment.

LAEP 1030 has implicted my understanding of the natural world by showing me the problems we have. Ve gre running out of resourcer and using them ineffectively and I didn't know before. Now I get more me tivated to be conscious of the ecological footprint I leave.

This class has helped me to see ally what our world is made up of. It has caused me to be more aware of my surroundings and see the world not just as an object but something that is living. It has helped me to be more aware of the resources have and to be more conservative.





oeri<mark>m</mark>eter) (around Wood Fence

covironment?

Chicken Has LAEP 1030 caused you to make any adjustments in your interaction with the

the shuttle n beds lot to class and carbool where I need to go. I now turn off the lights when I leave ray room and ta e shorter showers.

Hearned that we consume quite a bit as humans and that for me personally it would take 3.3 earths to sustain everyone if they lived like me. Itry to consume less. Things like more fuel efficient driving and less energy use. I also view areas that might have an environmental impacts and think what incould no to help Pool House

Coop

Fire Pit

Grass

ghou

es

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ade

Area Play

g

Wa**te**r Feat**ta**re ny best to use less idle time and to avoid Princing climate emissions 'e ve throughs a much as possible.

Water-Eise landscaping. Since aking this class (as a breadth requirement), I was su<mark>∉d</mark>ŭnly hitect for the backyard, and I've put serious thought into andscape ( converting dwindling flowerbeds and gar lens into a xeriscape experience using plants from where we lived in Wyoming. ጠ

tice things now that I didn't before and when hook at things I think of WAY different things then rused to. I used to say. "yea its ok". Now  $\mathbb{R}$  look deeper into things and notice small details that I've never seen before,  $\mathbb{R} > \mathbb{R}$ Basketball that l'venever seen before,  $\Im \ge \Im$ 

Dog Pen

# Wood Fence around U Suprimeter

- Chicken Coop
- students should in a Bread the Creative Arts Gen Ed course not knowing anything about landscape architecture and what landscape architects of
- By legring about a profession, they begin to develop an understanding of the natural world around them
- Landscape a chiteets an
- ang the more ct people nave on it. A 'landscope ethic' begins to form Landscape an anitects and generally 'lonstic' in their approach and keen on the natural world It is an action-oriented profession where 'the rubber meets the road' vs other basic Gen Ed courses that It is an act; on-oriented
- may be a bit too theoretical e.g. chen istry (how closes it help?)
- erhaps students learge from the applied course and take away meaningful understanding about the
- world around hem

